

FIG. 1A

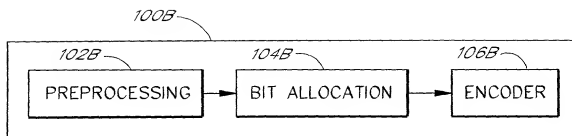


FIG. 1B

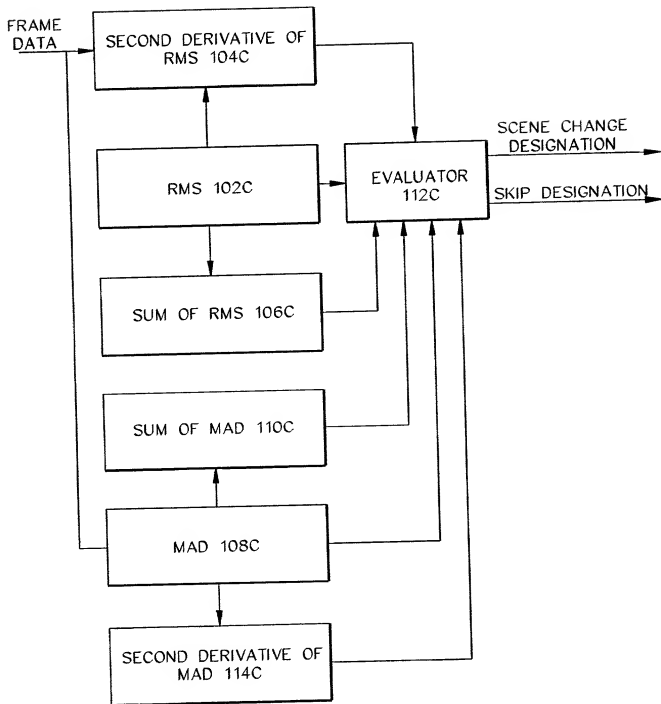


FIG. 1C

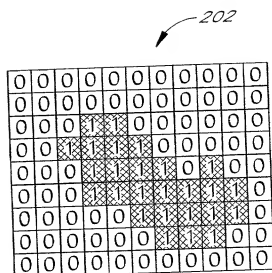


FIG. 2A
(PRIOR ART)

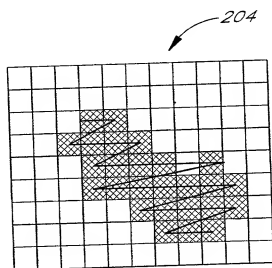
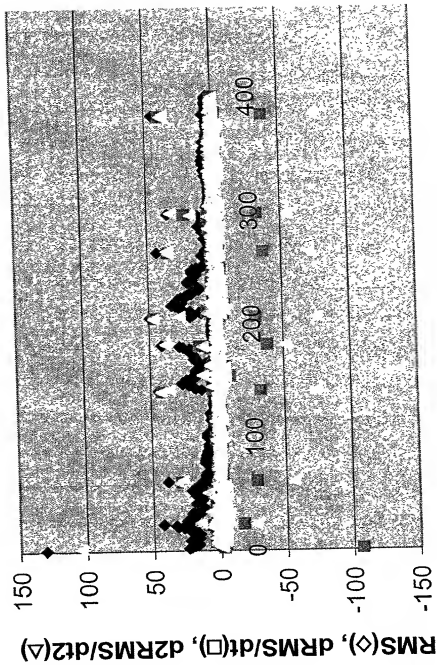


FIG. 2B
(PRIOR ART)



Frame number

FIG. 3

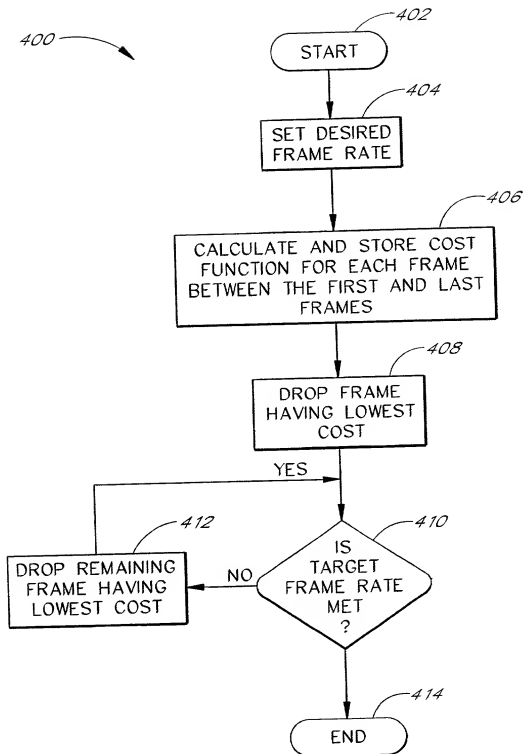


FIG. 4A

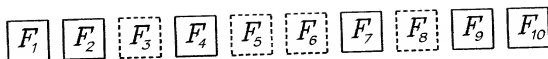


FIG. 4B

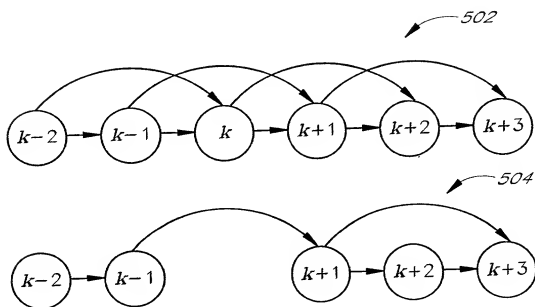


FIG. 5

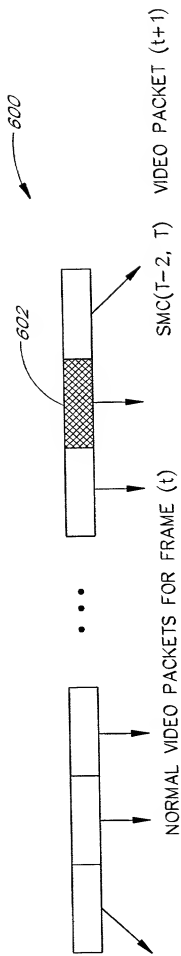


FIG. 6

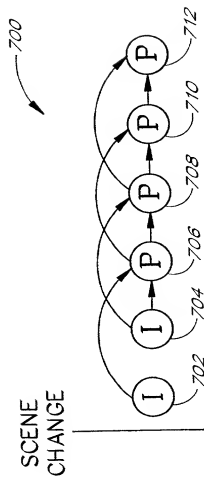
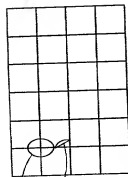


FIG. 7

FIG. 8A
(PRIOR ART)



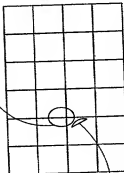
[a] Encode the I-VOP

1st VOP

2nd VOP

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

[c]

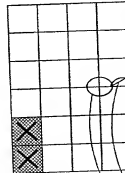


[d] Encode the P-VOP

3rd VOP

1	1	0	0	0	0
1	1	1	0	0	0
0	1	1	0	0	0
0	0	0	0	0	0

[g]



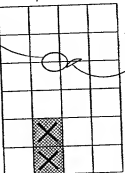
[h] Encode the P-VOP.

Some MBs are encoded as INTRA refresh.

4th VOP

0	0	0	0	0	0
1	1	1	0	0	0
0	1	1	0	0	0
0	0	1	1	0	0

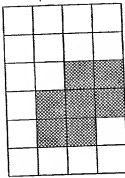
[i]



[m]

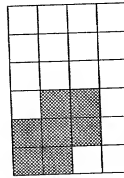
0	0	0	0	0	0
1	1	1	0	0	0
0	1	1	0	0	0
0	0	0	0	0	0

[j] Intra MBs in Refresh Map are updated.



[k]

[e] Estimate the motion of MB



[f] Motion MB is set to "1" in the Refresh Map.

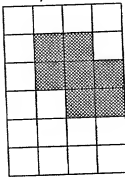
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

[b] Refresh Map

0	0	0	0	0	0
0	0	1	0	0	0
0	1	0	0	0	0
0	0	0	0	0	0

[p]



[q]

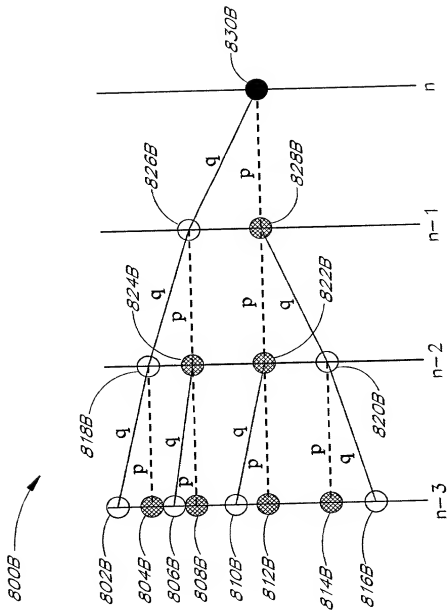


FIG. 8B

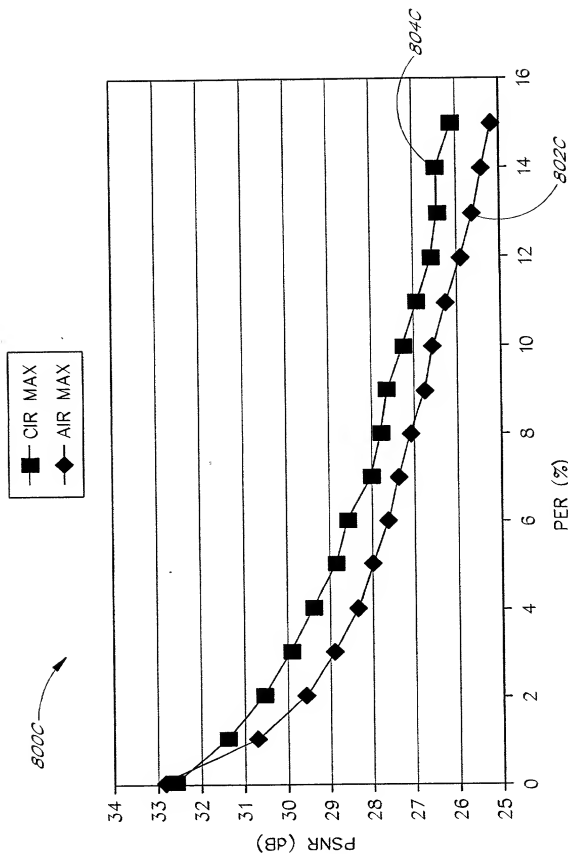
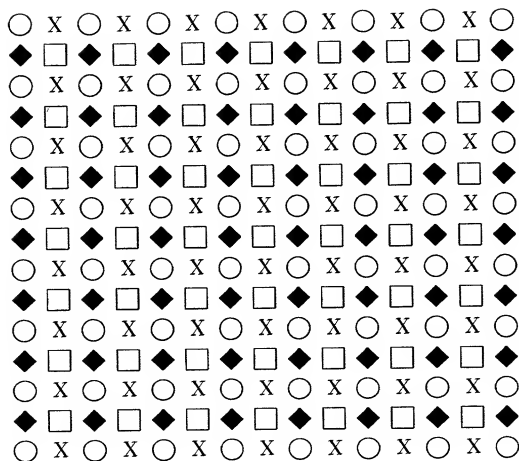


FIG. 8C



- = INTEGER PIXEL LOCATIONS
 X = HORIZONTAL HALF-PIXEL MOTION
 ◆ = VERTICAL HALF-PIXEL MOTION
 □ = HALF PIXEL MOTION IN BOTH HORIZONTAL AND VERTICAL DIRECTION

FIG. 8D

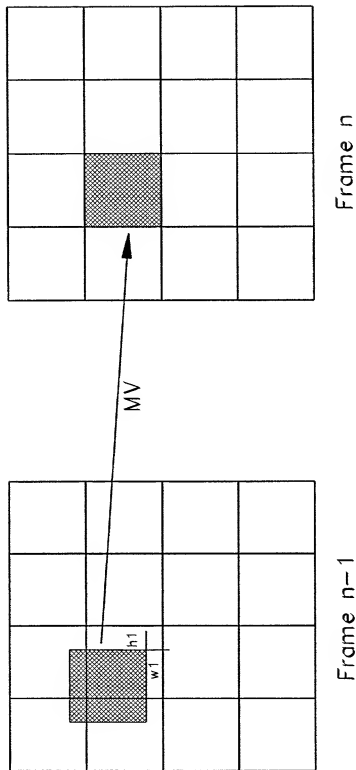


FIG. 8E

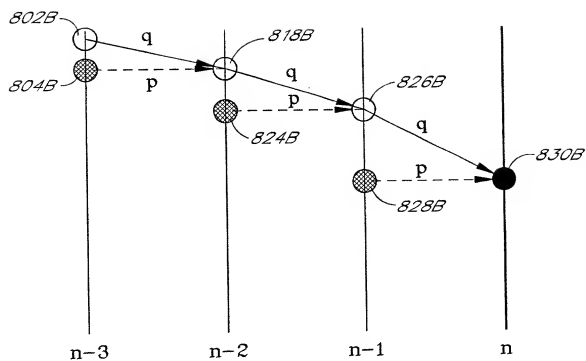


FIG. 8F

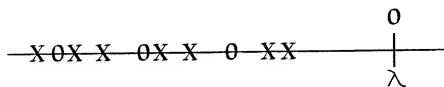


FIG. 8G

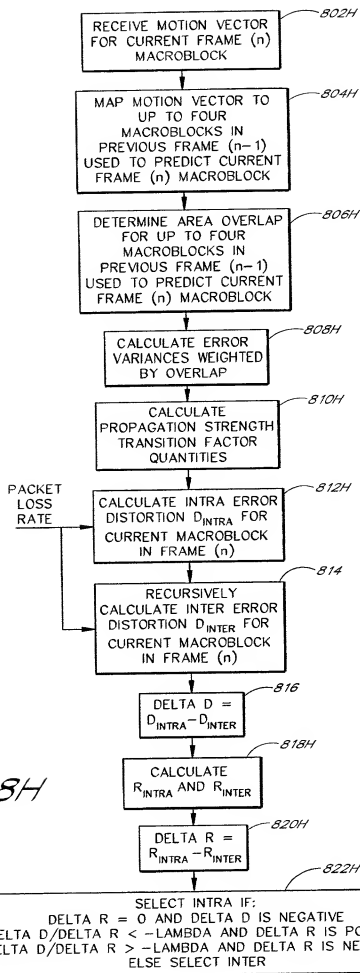


FIG. 8H

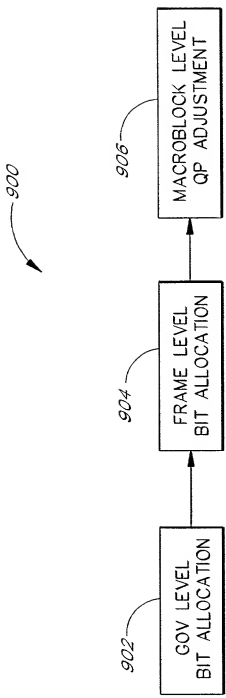


FIG. 9

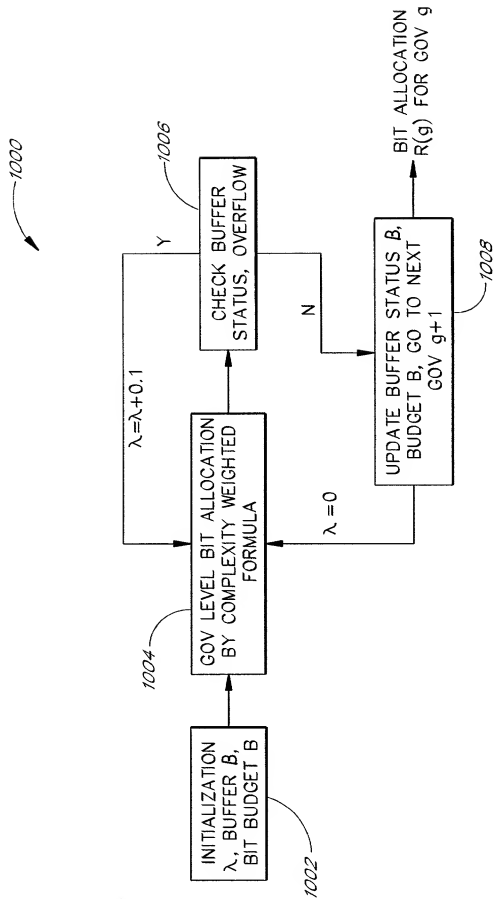


FIG. 10

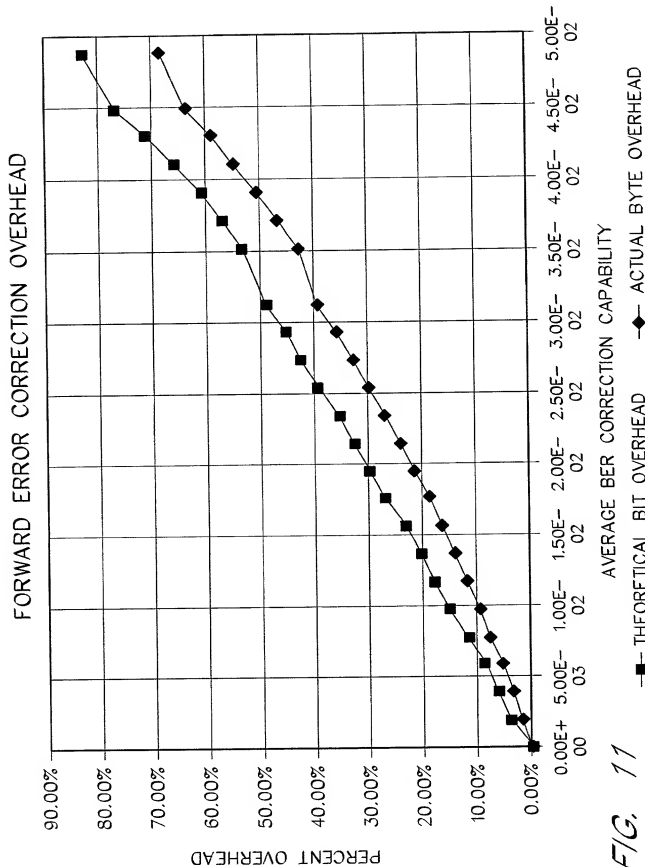


FIG. 11